

AMENDMENTS TO ABSTRACT

Please delete the original Abstract appearing on page 24 of the specification and replace it with the amended Abstract appended herewith; wherein a clean copy has been appended hereto.

A process for modifying the surface of a quartz glass crucible and a modified quartz glass crucible produced by the process, where the crucible has a transparent coated layer containing a crystallization accelerator on the surface. The process includes coating a mixed solution containing a metal salt and a partial hydrolyzate of alkoxy silane oligomer on the surface of the crucible and heating to obtain a quartz glass crucible having a transparent coated layer. The crystallization accelerator promoter contains a metal oxide or a metal carbonate dispersed in a silica matrix.